<center>**REMARKS/ARGUMENTS**</center>

Claims 1-37 and 49-50 were examined and restricted between Species I for claims 13-15 and 20 and Species II for claims 30-37. Claims 38-48 were previously cancelled. Applicants elect Species I with traverse for further prosecution in this application if no generic claim is finally held to be allowable. Applicants amend claim 18 to correct typographical errors. Applicants assert that no new matter is added therein as amended claim 18 is supported at least by claim 4.

Applicants traverse that the claims of the different species recite mutually exclusive characteristics of such species, for the claims as amended. For example, although the terms "first semiconductor material" and "second semiconductor material" may be used in different claim families to represent different materials, in each instance, for the amended claims including a contact, the contact may be coupled to a lead iodide material; while for claims including a third semiconductor material, the third semiconductor material may be coupled to a mercuric iodide layer. Thus, the third semiconductor material (e.g., such as a lead iodide material) does not prohibit the contact from being coupled to a lead iodide material. Hence, for at least this reason, Applicants respectfully request that the restriction between Species I and Species II be withdrawn.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2666 for any additional fees required under 37 C.F.R. §§ 1.16 or 1.17, particularly extension of time fees.

Respectfully submitted,
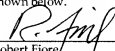
BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP

Dated: 6/6/08

Angelo J. Gaz
Registration No. 45,907

1279 Oakmead Parkway
Sunnyvale, California 94085-4040
Telephone (310) 207-3800
Facsimile (408) 720-8383

CERTIFICATE OF TRANSMISSION

I hereby certify that this correspondence is being submitted to the United States Patent and Trademark Office electronically via EFS Web on the date shown below.

Robert Fiore

6/6/08
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